

## ABSTRACT

A system (10) for imaging a rotating turbine blade (20) includes an image projector (12) receiving a moving image of the rotating blade and projecting a movement-compensated image. The system also includes an image receptor (14) for receiving the movement-compensated image. A sensor (16) is provided for generating information (28) indicative of a velocity of the rotating turbine blade and a processor (18) generates a drive signal (30) responsive to the information for controlling a position of the image projector. The image projector is controlled to receive the moving image at a desired angular position and to project the movement-compensated image to the image receptor so that the movement-compensated image appears stationary relative to the image receptor.